



SEQUENCE LISTING

<110> BAYER CORPORATION

<120> Pituitary Adenylate Cyclase Activating Peptide (PACAP) Receptor
(R3) Agonists and Their Pharmacological Methods of Use

<130> Bayer

<150> 09/407,832

<151> 1999-09-28

<150> 09/595,280

<151> 2000-06-15

<160> 343

<170> PatentIn version 3.0

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Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Leu	Asn
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1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu	Gly	Lys	Arg	Tyr	Lys
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JUN 7 2002

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Gln Arg Val Lys Asn Lys
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Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
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 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Lys Lys Gly Gly Thr
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Leu Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Gly Gly Thr
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 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Lys Lys Gly
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 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Lys Lys
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 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Lys Lys Gln
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 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Lys Lys Asn Gln
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Asn
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Lys
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
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Leu Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg Tyr
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Gln Arg Val Lys Asn Lys
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Met Ala Val Lys Lys Tyr Leu Asn Ser Leu Lys Lys
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Met Ala Val Lys Lys Tyr Leu Ser Ala Val Arg His Gly Gly Thr
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Gln Gly Gly Thr
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<222> (31)..(31)

<223> AMIDATION

<400> 61

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys Tyr Leu Ala Ala
20 25 30

Val Arg His Gly
35

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<211> 40

<212> PRT

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<222> (1)..(40)

<400> 62

Ser Trp Cys Glu Pro Gly Trp Cys Arg His Ser Asp Ala Val Phe Thr
1 5 10 15

Glu Asn Tyr Thr Lys Leu Arg Lys Gln Leu Ala Ala Lys Lys Tyr Leu
20 25 30

Asn Asp Leu Lys Lys Gly Gly Thr
35 40

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<211> 31

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<222> (1)..(31)

<400> 63

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Lys Gly Gly Thr
          20          25          30

<210> 64
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<400> 64

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Asn Gly Gly Thr
          20          25          30

<210> 65
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<400> 65

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Leu Ala Val Lys Lys Tyr Leu Asn Asp Ile Leu Lys Gly Gly Thr
          20          25          30

<210> 66
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<222>  (1)..(31)

<400>  66

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1          5          10          15

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys Gly Gly Thr
          20          25          30

<210>  67
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<220>
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<222>  (1)..(28)

<400>  67

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1          5          10          15

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys
          20          25

<210>  68
<211>  28
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<220>
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<220>
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<222>  (1)..(28)

<400>  68

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1          5          10          15

Leu Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys
          20          25

<210>  69
<211>  28
<212>  PRT
<213>  Artificial

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<220>
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 <222> (1)..(28)

 <400> 69

 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
 1 5 10 15

 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys
 20 25

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 <222> (1)..(28)

 <400> 70

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys
 20 25

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 <222> (1)..(30)

 <400> 71

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

 <210> 72
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 <400> 72

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
 20 25 30

 <210> 73
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 <222> (1)..(31)

 <400> 73

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
 20 25 30

 <210> 74
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 <222> (1)..(31)

 <400> 74

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
 20 25 30

 <210> 75
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 <400> 75

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
 20 25 30

 <210> 76
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 <400> 76

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
 20 25 30

 <210> 77
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 <212> PRT
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 <222> (1)..(31)

 <400> 77

 His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
 20 25 30

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 <220>
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<222> (1)..(31)

<400> 78

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 79

<211> 31

<212> PRT

<213> Artificial

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<223> synthetic construct

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<221> PEPTIDE

<222> (1)..(31)

<400> 79

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala His Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 80

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<212> PRT

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<221> PEPTIDE

<222> (1)..(31)

<400> 80

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys His Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 81

<211> 31

<212> PRT

<213> Artificial

<220>

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<221> PEPTIDE

<222> (1)..(31)

<400> 81

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Leu Ala Ala His Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 82

<211> 31

<212> PRT

<213> Artificial

<220>

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<220>

<221> PEPTIDE

<222> (1)..(31)

<400> 82

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Leu Ala Ala Lys His Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 83

<211> 30

<212> PRT

<213> Artificial

<220>

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<221> PEPTIDE

<222> (1)..(30)

<400> 83

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys Arg
20 25 30

<210> 84

<211> 30

<212> PRT

<213> Artificial

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 84

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg
20 25 30

<210> 85

<211> 31

<212> PRT

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<220>

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<221> PEPTIDE

<222> (1)..(31)

<400> 85

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 86

<211> 30

<212> PRT

<213> Artificial

<220>

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<221> PEPTIDE

<222> (1)..(30)

<400> 86

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys Arg
20 25 30

<210> 87

<211> 29

<212> PRT

<213> Artificial

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<221> PEPTIDE

<222> (1)..(29)

<400> 87

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys
 20 25

<210> 88
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<400> 88

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
 20 25 30

<210> 89
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<220>
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<400> 89

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg Tyr
 20 25 30

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<400> 90

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg
 20 25 30

<210> 91
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<220>
 <221> PEPTIDE
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<400> 91

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys
 20 25

<210> 92
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<220>
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 <222> (1)..(29)

<400> 92

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys
 20 25

<210> 93
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 <212> PRT
 <213> Artificial

<220>
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<220>
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 <222> (1)..(31)

<400> 93

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln

1	5	10	15
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Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg Tyr
20 25 30

<210> 94
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<220>
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<220>
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<222> (1)..(30)

<400> 94

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg
20 25 30

<210> 95
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<213> Artificial

<220>
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<220>
<221> PEPTIDE
<222> (1)..(29)

<400> 95

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys
20 25

<210> 96
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<213> Artificial

<220>
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<220>
<221> PEPTIDE
<222> (1)..(31)

<400> 96

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg Tyr
 20 25 30

<210> 97
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<220>
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 <222> (1)..(30)

<400> 97

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg
 20 25 30

<210> 98
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<220>
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<220>
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 <222> (1)..(29)

<400> 98

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys
 20 25

<210> 99
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<220>
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<220>
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 <222> (1)..(30)

<400> 99

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Cys Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

<210> 100
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<220>
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 <222> (1)..(30)

<400> 100

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Asp Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

<210> 101
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 <212> PRT
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<220>
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<220>
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 <222> (1)..(30)

<400> 101

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Glu Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

<210> 102
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 <212> PRT
 <213> Artificial

<220>
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<220>
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 <222> (1)..(30)

<400> 102

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Phe Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg

	20	25	30
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<210> 103
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 <212> PRT
 <213> Artificial

<220>
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<220>
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 <222> (1)..(30)

<400> 103

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Gly	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25					30	

<210> 104
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 <213> Artificial

<220>
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<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 104

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	His	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25					30	

<210> 105
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 <212> PRT
 <213> Artificial

<220>
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<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 105

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ile	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25					30	

<210> 106
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 <212> PRT
 <213> Artificial

<220>
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<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 106

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	
Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg		
		20						25					30		

<210> 107
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 <212> PRT
 <213> Artificial

<220>
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<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 107

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	
Met	Ala	Leu	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg		
		20						25					30		

<210> 108
 <211> 30
 <212> PRT
 <213> Artificial

<220>
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<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 108

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	
Met	Ala	Met	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg		
		20						25					30		

<210> 109
 <211> 30
 <212> PRT
 <213> Artificial

<220>
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<220>
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 <222> (1)..(30)

<400> 109

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Asn Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

<210> 110
 <211> 30
 <212> PRT
 <213> Artificial

<220>
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<220>
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 <222> (1)..(30)

<400> 110

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Pro Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

<210> 111
 <211> 30
 <212> PRT
 <213> Artificial

<220>
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<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 111

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Gln Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

<210> 112

<211> 30
<212> PRT
<213> Artificial

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)

<400> 112

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25						30

<210> 113
<211> 30
<212> PRT
<213> Artificial

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)

<400> 113

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ser	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25						30

<210> 114
<211> 30
<212> PRT
<213> Artificial

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)

<400> 114

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Thr	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25						30

<210> 115
<211> 30

<212> PRT
<213> Artificial

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)

<400> 115

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
		20					25						30

<210> 116
<211> 30
<212> PRT
<213> Artificial

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)

<400> 116

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Trp	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
		20					25						30

<210> 117
<211> 30
<212> PRT
<213> Artificial

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)

<400> 117

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Tyr	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
		20					25						30

<210> 118
<211> 30
<212> PRT

<213> Artificial

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 118

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Ala	Asn	Lys	Arg
			20				25						30

<210> 119

<211> 30

<212> PRT

<213> Artificial

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 119

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Cys	Asn	Lys	Arg
			20				25						30

<210> 120

<211> 30

<212> PRT

<213> Artificial

<220>

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<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 120

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Asp	Asn	Lys	Arg
			20				25						30

<210> 121

<211> 30

<212> PRT

<213> Artificial

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<220>
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<222> (1)..(30)

<400> 121

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Glu Asn Lys Arg
          20          25          30

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<400> 122

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Phe Asn Lys Arg
          20          25          30

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<222> (1)..(30)

<400> 123

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gly Asn Lys Arg
          20          25          30

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 <222> (1)..(30)

 <400> 124

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile His Asn Lys Arg
 20 25 30

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 <400> 125

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Ile Asn Lys Arg
 20 25 30

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 <400> 126

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Met Asn Lys Arg
 20 25 30

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<222> (1)..(30)

<400> 127

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Asn Asn Lys Arg
          20          25          30

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<222> (1)..(30)

<400> 128

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Pro Asn Lys Arg
          20          25          30

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<222> (1)..(30)

<400> 129

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gln Asn Lys Arg
          20          25          30

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<220>
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<222> (1)..(30)

<400> 130

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Arg Asn Lys Arg
20 25 30

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<400> 131

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Ser Asn Lys Arg
20 25 30

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<400> 132

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Thr Asn Lys Arg
20 25 30

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 <222> (1)..(30)

 <400> 133

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Val Asn Lys Arg
 20 25 30

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 <400> 134

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Trp Asn Lys Arg
 20 25 30

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 <400> 135

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Tyr Asn Lys Arg
 20 25 30

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<221>  PEPTIDE
<222>  (1)..(30)

<400>  136

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ala Arg
          20          25          30

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<222>  (1)..(30)

<400>  137

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Cys Arg
          20          25          30

<210>  138
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<220>
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<222>  (1)..(30)

<400>  138

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Asp Arg
          20          25          30

<210>  139
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<222> (1)..(30)

<400> 139

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Glu Arg
20 25 30

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<222> (1)..(30)

<400> 140

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Phe Arg
20 25 30

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<222> (1)..(30)

<400> 141

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Gly Arg
20 25 30

<210> 142

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<222> (1)..(30)

<400> 142

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn His Arg
20 25 30

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<213> Artificial

<220>

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<400> 143

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ile Arg
20 25 30

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<222> (1)..(30)

<400> 144

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Leu Arg
20 25 30

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<222> (1)..(30)

<400> 145

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Met Arg
20 25 30

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<400> 146

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Asn Arg
20 25 30

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<222> (1)..(30)

<400> 147

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Pro Arg
20 25 30

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<222> (1)..(30)

<400> 148

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Gln Arg
 20 25 30

<210> 149
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<220>
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 <222> (1)..(30)

<400> 149

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Arg
 20 25 30

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<400> 150

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ser Arg
 20 25 30

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<220>
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 <222> (1)..(30)

<400> 151

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Thr Arg

	20	25	30
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<210> 152
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 <213> Artificial

 <220>
 <223> synthetic construct

 <400> 152

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Val	Arg
			20				25						30

<210> 153
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 <212> PRT
 <213> Artificial

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 <220>
 <221> PEPTIDE
 <222> (1)..(30)

 <400> 153

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Trp	Arg
			20				25						30

<210> 154
 <211> 30
 <212> PRT
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 <222> (1)..(30)

 <400> 154

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Tyr	Arg
			20				25						30

<210> 155
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<213> Artificial

<220>

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<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 155

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Ala
			20				25						30

<210> 156

<211> 30

<212> PRT

<213> Artificial

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 156

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Asp
			20				25						30

<210> 157

<211> 30

<212> PRT

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<220>

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<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 157

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Glu
			20				25						30

<210> 158

<211> 30

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<220>
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<222> (1)..(30)

<400> 158

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Phe
      20          25          30

<210> 159
<211> 30
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<222> (1)..(30)

<400> 159

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Gly
      20          25          30

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<222> (1)..(30)

<400> 160

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys His
      20          25          30

<210> 161
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 <222> (1)..(30)

 <400> 161

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Ile
 20 25 30

 <210> 162
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 <222> (1)..(30)

 <400> 162

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Lys
 20 25 30

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 <222> (1)..(30)

 <400> 163

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Leu
 20 25 30

 <210> 164
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 <220>

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<223> synthetic construct

<220>
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<222> (1)..(30)

<400> 164

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Met
          20          25          30

<210> 165
<211> 30
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<220>
<221> PEPTIDE
<222> (1)..(30)

<400> 165

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Asn
          20          25          30

<210> 166
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<213> Artificial

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<220>
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<222> (1)..(30)

<400> 166

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Pro
          20          25          30

<210> 167
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<220>
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<220>
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<222> (1)..(30)

<400> 167

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Gln
          20          25          30

<210> 168
<211> 30
<212> PRT
<213> Artificial

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<222> (1)..(30)

<400> 168

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Ser
          20          25          30

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<400> 169

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Thr
          20          25          30

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 <400> 170

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Val
 20 25 30

 <210> 171
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 <400> 171

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Trp
 20 25 30

 <210> 172
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 <213> Artificial

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 <220>
 <221> PEPTIDE
 <222> (1)..(30)

 <400> 172

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Tyr
 20 25 30

 <210> 173
 <211> 40
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 <220>
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 <220>

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<221>  PEPTIDE
<222>  (1)..(40)

<400>  173

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr Ser
          20          25          30

Trp Cys Glu Pro Gly Trp Cys Arg
          35          40

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<212>  PRT
<213>  Artificial

<220>
<223>  synthetic construct

<220>
<221>  PEPTIDE
<222>  (1)..(31)

<400>  174

His Ser Asp Ala Val Phe Thr Asp Asp Tyr Thr Arg Leu Arg Lys Glu
1          5          10          15

Val Ala Ala Lys Lys Tyr Leu Glu Ser Ile Lys Asp Lys Arg Tyr
          20          25          30

<210>  175
<211>  27
<212>  PRT
<213>  Artificial

<220>
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<220>
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<222>  (27)..(27)
<223>  AMIDATION

<400>  175

Glu Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1          5          10          15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
          20          25

<210>  176
<211>  27
<212>  PRT
<213>  Artificial

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<220>
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<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 176

His Lys Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 177
<211> 27
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<213> Artificial

<220>
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<220>
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<222> (27)..(27)
<223> AMIDATION

<400> 177

His Ser Lys Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

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<211> 27
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<222> (27)..(27)
<223> AMIDATION

<400> 178

His Ser Asp Lys Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

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<222> (27)..(27)
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<400> 179

His Ser Asp Gly Lys Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

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<220>
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<222> (27)..(27)
<223> AMIDATION

<400> 180

His Ser Asp Gly Ile Lys Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 181
<211> 27
<212> PRT
<213> Artificial

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 181

His Ser Asp Gly Ile Phe Lys Asp Ser Tyr Ser Arg Tyr Arg Lys Gln

1	5	10	15
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 182
<211> 27
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<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 182

His Ser Asp Gly Ile Phe Thr Lys Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 183
<211> 27
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<213> Artificial

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<222> (27)..(27)
<223> AMIDATION

<400> 183

His Ser Asp Gly Ile Phe Thr Asp Lys Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 184
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<222> (27)..(27)
<223> AMIDATION

<400> 184

His Ser Asp Gly Ile Phe Thr Asp Ser Lys Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 185

<211> 27

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<213> Artificial

<220>

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<220>

<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 185

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Lys Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 186

<211> 27

<212> PRT

<213> Artificial

<220>

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<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 186

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Glu Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 187

<211> 27

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<220>
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 <222> (27)..(27)
 <223> AMIDATION

<400> 187

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Lys Arg Lys Gln
 1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
 20 25

<210> 188
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<400> 188

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Glu Lys Gln
 1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
 20 25

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 <222> (27)..(27)
 <223> AMIDATION

<400> 189

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Glu Gln
 1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
 20 25

<210> 190
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<223> AMIDATION

<400> 190

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Lys
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Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

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<223> AMIDATION

<400> 191

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Lys	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

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<222> (27)..(27)
<223> AMIDATION

<400> 192

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
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Met Lys Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 193
<211> 27
<212> PRT
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<220>
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<220>
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<222> (27)..(27)
<223> AMIDATION

<400> 193

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 194
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<223> AMIDATION

<400> 194

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Glu Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 195
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<222> (27)..(27)
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<400> 195

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Glu Tyr Leu Ala Ala Val Leu
20 25

<210> 196

<211> 27

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<222> (27)..(27)

<223> AMIDATION

<400> 196

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Lys Leu Ala Ala Val Leu
20 25

<210> 197

<211> 27

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<222> (27)..(27)

<223> AMIDATION

<400> 197

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Lys Ala Ala Val Leu
20 25

<210> 198

<211> 27

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<400> 198

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Lys Ala Val Leu
20 25

<210> 199
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<400> 199

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Lys Val Leu
20 25

<210> 200
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<400> 200

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Lys Leu
20 25

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<220>
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<400> 201

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys
20 25

<210> 202
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<220>
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<220>
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<400> 202

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile
20 25 30

<210> 203
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<220>
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<220>
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<222> (1)..(30)

<400> 203

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile
20 25 30

<210> 204
<211> 30
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<220>

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<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 204

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
		20					25						30

<210> 205

<211> 30

<212> PRT

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<221> PEPTIDE

<222> (1)..(30)

<400> 205

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
			20				25						30

<210> 206

<211> 30

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<220>

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<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 206

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ser	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
			20				25						30

<210> 207

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<222> (1)..(30)

<400> 207

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

<210> 208
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<400> 208

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

<210> 209
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<222> (1)..(30)

<400> 209

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

<210> 210
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<400> 210

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

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<220>
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<400> 211

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

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<400> 212

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 213

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<222> (1)..(30)

<400> 214

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 215

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 216

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 217

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
          20          25          30

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<400> 218

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
          20          25          30

<210> 219
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<220>
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 <400> 219

 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

 Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
 20 25 30

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 Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
 20 25 30

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 1 5 10 15

 Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
 20 25 30

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 gttaaaaaca agtaatgact cgag 144

 <210> 223
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 <220>
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 <222> (1)..(114)

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 <210> 224
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 <222> (1)..(123)

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 <210> 225
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 <222> (1)..(114)

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 <210> 241
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 <222> (1)..(120)

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gag      123

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